Service Layer Design Document

The backend of my application will use Express routes in order to get and send information to MongoDB.

Service Endpoints include the following:

Route	HTTP Verb	Action
/register	POST	Registers the user into the system
/login	POST	Logs the user in for application use
/logout	GET	Logs the user out
/myGarden	GET	Takes the user to the “My Garden” page
/addPlants	GET	Takes the user to the “Add Plants” page
/myGarden/plantID	POST	Removes a plant from “My Garden
/addPlants/plantID	POST	Adds a plant to “My Garden”

Register Route:

A user wants to create an account for the website

Method: POST

Request:

```
{
  "name": "testuser",
  "email": "test@email.com",
  "password": "password123"
}
```

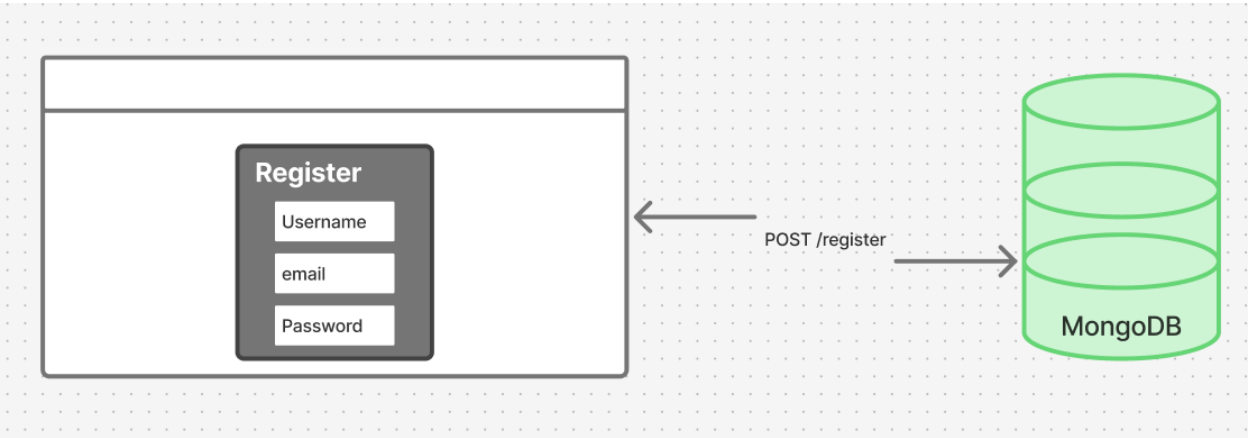
Response:

Reroutes to myGarden page

Error:

“User already exists”

Diagram:



Login route

User wants to log into the website

Request:

{

"email": "test@email.com",

"password": "password123"

}

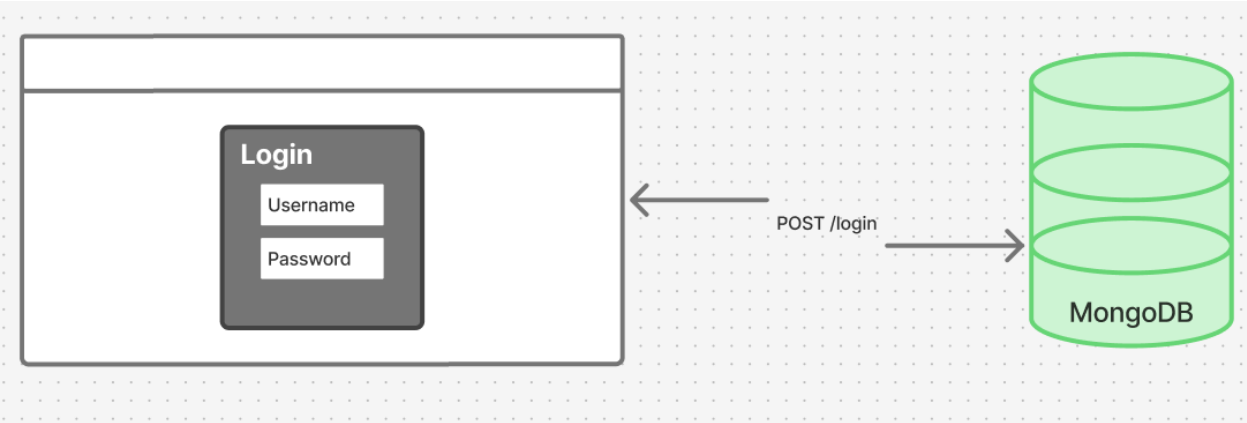
Response:

User gets sent to myGarden page

Error:

“Incorrect username/ password”

Diagram:



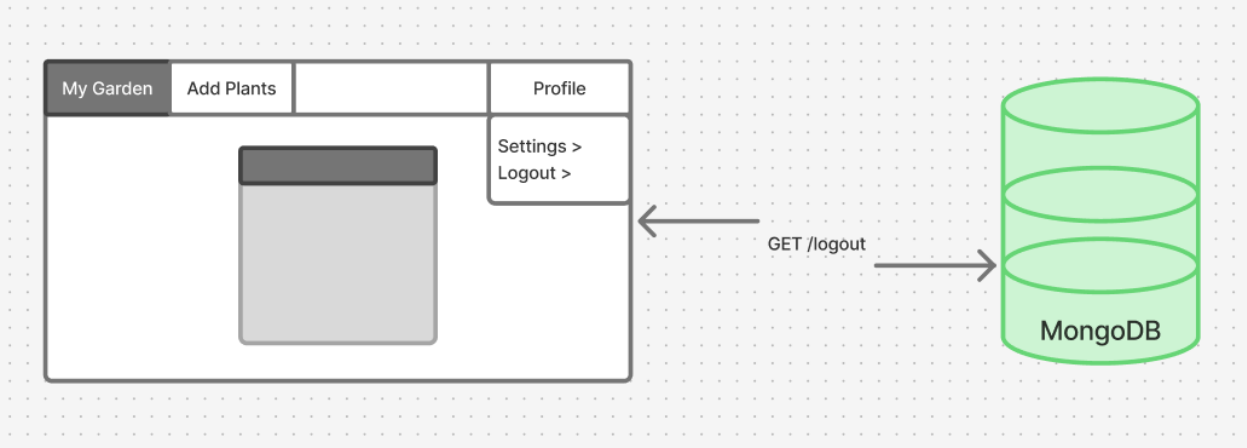
Logout Route

User wants to log out of the site

Response:

User gets sent to login page and their express session is terminated

Diagram:



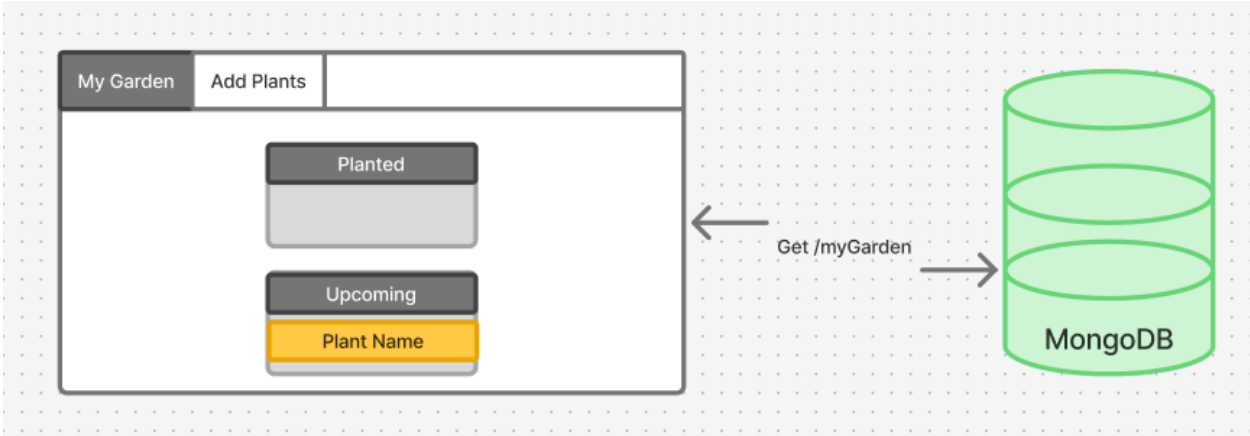
My Garden Route

User wants to see the list of plants they have planted or are planning on planting

Response:

```
[
 {
   id: dfgjsdfigo,
   name: "Tomato",
   planted: true,
   plantedDate: 5/31/2025
 },
{
   id: 20d87sfc,
   name: "Peppers",
   planted: false,
   plantedDate: null
 }
]
```

Diagram:

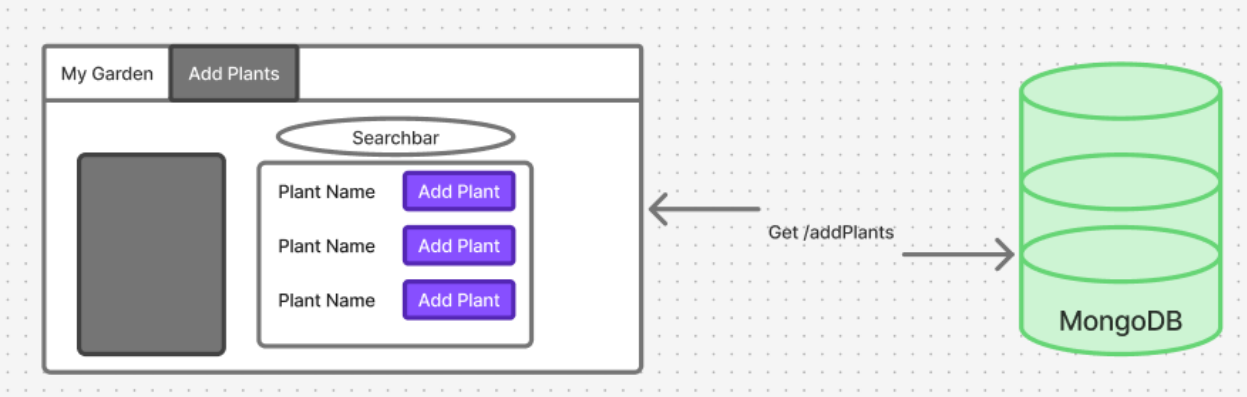


Add Plants Page Route

User want to see which plants they can add to their garden

Response: User is directed to the “Add Plants” page

Diagram:



Add Plant Request Route

User wants to add a plant to their upcoming table.

Request:

{

plant_name: String

}

{

previously_planted: int

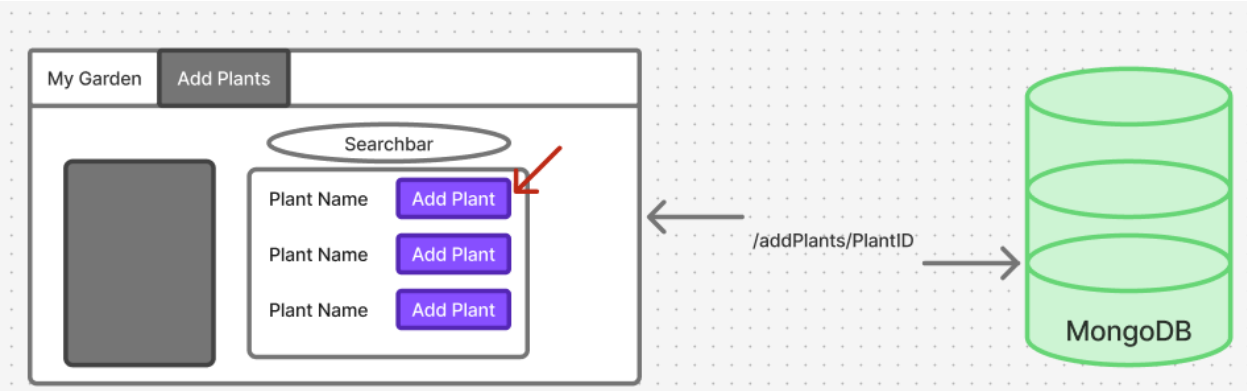
}

Response:

Plant is added to the garden with info populated from static csv.

Stretch goal: adding a plant to the garden will increase the number of times it has been previously planted by you, which can help keep track of your favorite plants.

Diagram:



Delete Plant Route

User wants to delete a plant from their garden

Request:

{

plantId: woihdosfwef

}

Response:

Plant is deleted from user garden